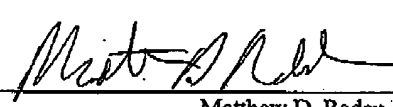
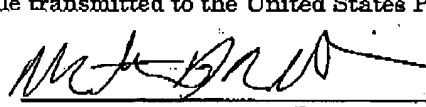


**OFFICIAL**

<b>RCE TRANSMITTAL LETTER(Large Entity)</b> Applicant(s): Wei Pan, Jer-Shen Maa, David Russell Evans, and Sheng Teng Hsu			Docket No. <b>SLA0493</b>		
Serial No 09/820,068	Filing Date March 28, 2001	Examiner Luhrs, M.	Group Art Unit 2824		
Invention: Method of Barrier Metal Surface Treatment Prior to Cu Deposition to Improve Adhesion and Trench Filling Characteristics					
<b>RECEIVED</b> <b>TO THE COMMISSIONER FOR PATENTS: CENTRAL FAX CENTER</b> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>Transmitted herewith is an amendment in the above identified application. The fee has been calculated and is transmitted as shown below.</div> <div style="text-align: right;">APR 19 2004</div> </div>					
<b>CLAIMS AS AMENDED</b>					
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER OF EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	13 -	20 =	0	x \$18.00	\$0.00
INDEP. CLAIMS	3 -	3 =	0	x \$84.00	\$0.00
Multiple Dependent Claims (check if applicable) _____					\$0.00
<b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT</b>					<b>\$0.00</b>
<div style="margin-bottom: 10px;"> <input checked="" type="checkbox"/> Please charge Deposit Account No. 19-1457 in the amount of \$750.00, which consists of the fee of \$750.00 specified in 37 CFR 1.17(e), plus any fee required by 37 CFR 1.111, as calculated above.            A duplicate copy of this sheet is enclosed.         </div> <div style="margin-bottom: 10px;">           _____ A check in the amount of _____ to cover the filing fee is enclosed.         </div> <div style="margin-bottom: 10px;"> <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 19-1457.            A duplicate copy of this sheet is enclosed.         </div> <div style="margin-bottom: 10px;"> <input checked="" type="checkbox"/> Any additional fees required under 37 C.F.R. 1.16.         </div> <div style="margin-bottom: 10px;"> <input checked="" type="checkbox"/> Any patent application processing fees under 37 C.F.R. 1.17.         </div> <div style="margin-top: 20px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">               Matthew D. Radau, Reg. No. 43,026           </div> <div style="text-align: right;">             Dated: April 19, 2004           </div> </div> </div>					
I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office under 37 C.F.R. §1.8 at Fax No. ( 703 ) 872-9306 on April 19, 2004. <div style="text-align: right; margin-top: 20px;">               Matthew D. Radau, Reg. No. 43,026           </div>					
Note: Each paper must have its own certificate or transmission, or this certificate must identify each submitted paper. The papers submitted include:					
<input checked="" type="checkbox"/> This Request for Continued Examination Transmittal (Include Duplicate)				2 page(s)	
<input checked="" type="checkbox"/> RCE under 37 CFR § 1.114				11 page(s)	
_____ Attachments				0 page(s)	
_____				0 pages	
<input checked="" type="checkbox"/> Petition for Extension of Time under 37 C.F.R. § 1.136 (Include Duplicate)				2 pages	
<b>Total pages, including this Transmittal:</b>					<b>15</b>

RCE TRANSMITTAL LETTER(Large Entity) Applicant(s): Wei Pan, Jer-Shen Maa, David Russell Evans, and Sheng Teng Hsu			Docket No. SLA0493
Serial No 09/820,068	Filing Date March 28, 2001	Examiner Luhrs, M.	Group Art Unit 2824

Invention: Method of Barrier Metal Surface Treatment Prior to Cu Deposition to Improve Adhesion and Trench Filling Characteristics

**TO THE COMMISSIONER FOR PATENTS:**

Transmitted herewith is an amendment in the above identified application.

The fee has been calculated and is transmitted as shown below.

**CLAIMS AS AMENDED**

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER OF EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	13	20 =	0	x \$18.00	\$0.00
INDEP. CLAIMS	3	3 =	0	x \$84.00	\$0.00
Multiple Dependent Claims (check if applicable) _____					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0.00

☒ Please charge Deposit Account No. 19-1457 in the amount of \$750.00, which consists of the fee of \$750.00 specified in 37 CFR 1.17(e), plus any fee required by 37 CFR 1.111, as calculated above.

A duplicate copy of this sheet is enclosed.

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☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 19-1457.

A duplicate copy of this sheet is enclosed.

☒ Any additional fees required under 37 C.F.R. 1.16.

☒ Any patent application processing fees under 37 C.F.R. 1.17.



Matthew D. Radau, Reg. No. 43,026

Dated: April 19, 2004

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office under 37 C.F.R. §1.8 at Fax No. (703) 872-9306 on April 19, 2004.



Matthew D. Radau, Reg. No. 43,026

Note: Each paper must have its own certificate or transmission, or this certificate must identify each submitted paper. The papers submitted include:

<input checked="" type="checkbox"/> This Request for Continued Examination Transmittal (Include Duplicate)	2 page(s)
<input checked="" type="checkbox"/> RCE under 37 CFR § 1.114	11 page(s)
_____ Attachments	0 page(s)
_____	0 pages
<input checked="" type="checkbox"/> Petition for Extension of Time under 37 C.F.R. § 1.136 (Include Duplicate)	2 pages

Total pages, including this Transmittal: 15

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APR 19 2004  
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Appl. No. 09/820,068  
Response dated April 19, 2004  
Reply to Office Action of 12/19/2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Inventors: Wei Pan, Jer-Shen Maa, David  
Russell Evans, and Sheng Teng Hsu

Serial No: 09/820,068

Filed: March 28, 2001

Title: METHOD OF BARRIER METAL  
SURFACE TREATMENT PRIOR  
TO CU DEPOSITION TO  
IMPROVE ADHESION AND  
TRENCH FILLING  
CHARACTERISTICS

PATENT  
APPLICATION

Attorney Docket No.  
SLA0493

Group No. 2824

Examiner:  
Luhrs, M.

April 19, 2004

Mail Stop RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REQUEST FOR CONTINUED EXAMINATION UNDER 37 C.F.R. § 1.114

Sir:

This communication responds to an Office Action dated  
December 19, 2003 in the above identified patent application. Please make  
amendments, if any, in the above-identified application as follows:

Amendments to the Claims, if any, are reflected in the listing of claims  
beginning on page 2 of this paper.

Remarks begin on page 6 of this paper.